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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/763,168	KWEON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tarifur R Chowdhury	2871	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 08/25/04.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☒ The drawings filed on 26 January 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☒ Certified copies of the priority documents have been received in Application No. 10/128,439.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto, or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>01/26/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                               | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

***Allowable Subject Matter***

1. Claims 1-26 are allowed.
2. The following is an examiner's statement of reasons for allowance:
3. As to claim 1, the prior arts of record do not anticipate or render obvious to one skilled in the art a method for manufacturing a liquid crystal display device comprising the steps of filling liquid crystal into a liquid crystal dispenser; testing dispensing characteristics of the liquid crystal dispenser to assess functionality of the liquid crystal dispenser; after the testing step, mounting the liquid crystal dispenser on a liquid crystal dispensing unit of a production line; dispensing the liquid crystal from the mounted liquid crystal dispenser onto a first substrate of the liquid crystal display disposed beneath the mounted liquid crystal dispenser; and assembling the first substrate with a second substrate to form a liquid crystal display.
4. As to claims 12 and 20, the prior arts of record do not anticipate or render obvious to one skilled in the art a system for manufacturing a liquid crystal display device, comprising means for filling liquid crystal into a liquid crystal dispenser; means for testing an amount of the liquid crystal dispensed by the liquid crystal dispenser; means for dispensing the liquid crystal from the liquid crystal dispenser onto a first substrate; and means for assembling the first substrate with a second substrate to form a liquid crystal display device.
5. US 2001/0026348 discloses a method for manufacturing a liquid crystal display device utilizing the dispensing-injection method allowing an optimum quantity of liquid crystals to be dispensed on each substrate. US 2003/0063251 discloses a method and

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apparatus for fabricating a liquid crystal display wherein the liquid crystal is dripped onto the first substrate and the first substrate and the second substrate are joined together under pressure in a vacuum chamber. Further, a method of manufacturing a liquid crystal display including steps of filling liquid crystal into a liquid crystal dispenser; dispensing the liquid crystal from the liquid crystal dispenser and assembling the first substrate with a second substrate to form a liquid crystal display device is known in the art. Similarly performing a testing step to determine various different objectives is also known in the art. However, none of the prior arts alone or in combination with any other prior art references teach or suggest the claimed step or means for testing an amount of liquid crystal dropped by the liquid crystal dispenser to assess the functionality of the liquid crystal dispenser.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC  
November 11, 2004



TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER